ENGLISH

C 326BEE

Stereo Integrated Amplifier

Owner's Manual

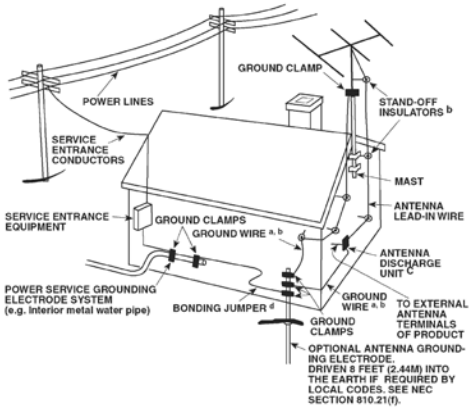
IMPORTANT SAFETY INSTRUCTIONS

ENGLISH

SAVE THESE INSTRUCTIONS FOR LATER USE.
FOLLOW ALL WARNINGS AND INSTRUCTIONS MARKED ON THE AUDIO EQUIPMENT.

1 **Read instructions** - All the safety and operating instructions should be read before the product is operated.
2 **Retain instructions** - The safety and operating instructions should be retained for future reference.
3 **Heed Warnings** - All warnings on the product and in the operating instructions should be adhered to.
4 **Follow Instructions** - All operating and use instructions should be followed.
5 **Cleaning** - Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
6 **Attachments** - Do not use attachments not recommended by the product manufacturer as they may cause hazards.
7 **Water and Moisture** - Do not use this product near water-for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.
8 **Accessories** - Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
9 A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.
10 **Ventilation** - Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
11 **Power Sources** - This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.
The primary method of isolating the amplifier from the mains supply is to disconnect the mains plug. Ensure that the mains plug remains accessible at all times. Unplug the AC power cord from the AC outlet if the unit will not be used for several months or more.
12 **Grounding or Polarization** - This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
13 **Power** - Cord Protection - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
14 **Outdoor Antenna Grounding** - If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

NOTE TO CATV SYSTEM INSTALLER
This reminder is provided to call the CATV system installer's attention to Section 820-40 of the NEC which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.


GROUND CLAMP
POWER LINES
STAND-OFF INSULATORS b
SERVICE ENTRANCE CONDUCTORS
MAST
ANTENNA LEAD-IN WIRE
SERVICE ENTRANCE EQUIPMENT
GROUND CLAMPS
GROUND WIRE a, b
ANTENNA DISCHARGE UNIT c
POWER SERVICE GROUNDING ELECTRODE SYSTEM (e.g. interior metal water pipe)
BONDING JUMPER d
GROUND WIRE a, b
TO EXTERNAL ANTENNA TERMINALS OF PRODUCT
GROUND CLAMPS
OPTIONAL ANTENNA GROUNDING ELECTRODE. DRIVEN 8 FEET (2.44M) INTO THE EARTH IF REQUIRED BY LOCAL CODES. SEE NEC SECTION 810.21(f).

15 **Lightning** - For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
16 **Power Lines** - An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
17 **Overloading** - Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
18 **Object and Liquid Entry** - Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

WARNING: THE APPARATUS SHOULD NOT BE EXPOSED TO DRIPPING OR SPLASHING, AND OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHOULD NOT BE PLACED ON THE APPARATUS. AS WITH ANY ELECTRONIC PRODUCTS, USE CARE NOT TO SPILL LIQUIDS INTO ANY PART OF THE SYSTEM. LIQUIDS CAN CAUSE A FAILURE AND/OR A FIRE HAZARD.

19 **Damage Requiring Service** - Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
   - **a)** When the power-supply cord or plug is damaged.
   - **b)** If liquid has been spilled, or objects have fallen into the product.
   - **c)** If the product has been exposed to rain or water.
   - **d)** If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
   - **e)** If the product has been dropped or damaged in any way.
   - **f)** when the product exhibits a distinct change in performance-this indicates a need for service.

20 **Replacement Parts** - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

21 **Safety Check** - Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

22 **Wall or Ceiling Mounting** - The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

23 **Heat** - The product should be situated away from heat sources such as radiators, heat registers, stoves or other products (including amplifiers) that produce heat.

24 **Headphones** - Excessive sound pressure form earphones and headphones can cause hearing loss.

25 **Battery Disposal** - When disposing of used batteries, please comply with governmental regulations or environmental public instruction's rules that apply in your country or area. Batteries (battery pack or batteries installed) must not be exposed to excessive heat such as sunshine, fire or the like.

WARNING

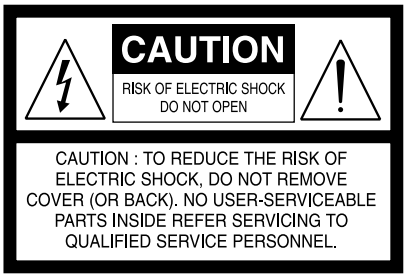
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

CAUTION

TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAYBE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.

THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The equipment draws its nominal non-operational power from the AC outlet with its POWER switch in the STANDBY position.
The socket-outlet shall be installed near the apparatus and shall be easily accessible.

CAUTION

Changes or modifications to this equipment not expressly approved by NAD Electronics for compliance could void the user's authority to operate this equipment.

CAUTION REGARDING PLACEMENT

To maintain proper ventilation, be sure to leave a space around the unit (from the largest outer dimensions including projections) that is equal to or greater than shown below.

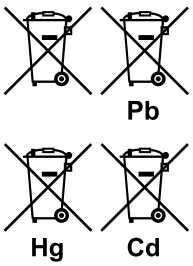
Left and Right Panels: 10 cm
Rear Panel: 10 cm
Top Panel: 50 cm

NOTES ON ENVIRONMENTAL PROTECTION

At the end of its useful life, this product must not be disposed of with regular household waste but must be returned to a collection point for the recycling of electrical and electronic equipment. The symbol on the product, user's manual and packaging, point this out.

The materials can be reused in accordance with their markings. Through re-use, recycling of raw materials or other forms of recycling of old products, you are making an important contribution to the protection of our environment. Your local administrative office can advise you of the responsible waste disposal point.

INFORMATION ABOUT COLLECTION AND DISPOSAL OF WASTE BATTERIES (DIRECTIVE 2006/66/EC OF THE EUROPEAN PARLIAMENT AND THE COUNCIL OF EUROPEAN UNION) (FOR EUROPEAN CUSTOMERS ONLY)



Batteries bearing any of these symbols indicate that they should be treated as "separate collection" and not as municipal waste. It is encouraged that necessary measures are implemented to maximize the separate collection of waste batteries and to minimize the disposal of batteries as mixed municipal waste.

End-users are exhorted not to dispose waste batteries as unsorted municipal waste. In order to achieve a high level of recycling waste batteries, discard waste batteries separately and properly through an accessible collection point in your vicinity. For more information about collection and recycling of waste batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

By ensuring compliance and conformance to proper disposal of waste batteries, potential hazardous effects on human health is prevented and the negative impact of batteries and waste batteries on the environment is minimized, thus contributing to the protection, preservation and quality improvement of the environment.

NOTE: THE C 326BEE IS NOT AN AUTO VOLTAGE UNIT. CONNECT ONLY TO THE PRESCRIBED AC OUTLET, I.E., 120V 60HZ OR 230V 50HZ.

RECORD YOUR MODEL NUMBER (NOW, WHILE YOU CAN SEE IT)

The model and serial number of your new C 326BEE are located on the back of the cabinet. For your future convenience, we suggest that you record these numbers here:

Model no: .....
Serial no.: .....

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UNPACKING AND SETUP

WHAT'S IN THE BOX

Packed with your C 326BEE you will find:

- The SR 8 remote control with 2 (two) AA batteries
- This owner's manual
- A detachable AC power cord

SAVE THE PACKAGING

Please save the box and all of the packaging in which your C 326BEE arrived. Should you move or otherwise need to transport your C 326BEE, this is by far the safest container in which to do so. We've seen too many otherwise perfect components damaged in transit for lack of a proper shipping carton, so please: Save that box!

CHOOSING A LOCATION

Choose a location that is well ventilated (with at least several inches to both sides and behind), and that will provide a clear line of sight, within 23 feet/7 meters, between the C 326BEE's front panel and your primary listening/viewing position. This will ensure reliable infrared remote control communications. The C 326BEE generates a modest amount of heat, but nothing that should trouble adjacent components. It is perfectly possible to stack the C 326BEE atop other components, but the reverse usually should be avoided.

It is especially important that sufficient ventilation be provided. If you are contemplating locating the C 326BEE within a cabinet or other furniture, consult your NAD audio/video specialist for advice on providing adequate airflow.

NOTES ON INSTALLATION

Your NAD C 326BEE should be placed on a firm, level surface. Avoid placing the unit in direct sunlight or near sources of heat and damp. Allow adequate ventilation. Do not place the unit on a soft surface like a carpet. Do not place it in an enclosed position such a bookcase or cabinet that may impede the air-flow through the ventilation slots. Make sure the unit is switched off before making any connections.

The RCA sockets on your NAD C 326BEE are colour coded for convenience. Red and white are Right and Left audio respectively.
Use high quality leads and sockets for optimum performance and reliability. Ensure that leads and sockets are not damaged in any way and all sockets are firmly pushed home.

For best performance, use quality speaker leads of 16 gauge (1.5mm) thickness or more. If the unit is not going to be used for some time, disconnect the plug from the AC socket.

Should water get into your NAD C 326BEE, shut off the power to the unit and remove the plug from the AC socket. Have the unit inspected by a qualified service technician before attempting to use it again.

DO NOT REMOVE THE COVER; THERE ARE NO USER-SERVICEABLE PARTS INSIDE.

Use a dry soft cloth to clean the unit. If necessary, lightly dampen the cloth with soapy water. Do not use solutions containing benzol or other volatile agents.

BARE WIRES AND PIN CONNECTORS

WARNING: The terminals marked with this symbol are hazardous live. External wiring connected to these terminals requires installation by an instructed person or the use of ready-made leads or cords.

Bare wires and pin sockets should be inserted into the hole in the shaft of the terminal. Unscrew the speaker terminal's plastic bushing until the hole in the screw shaft is revealed. Insert the pin or bare cable end into the hole and secure the cable by tightening down the terminal's bushing. Ensure bare wire from the speaker cables does not touch the back panel or another socket. Ensure that there is only 1/2" (1cm) of bare cable or pin and no loose strands of speakers wire.

QUICK START

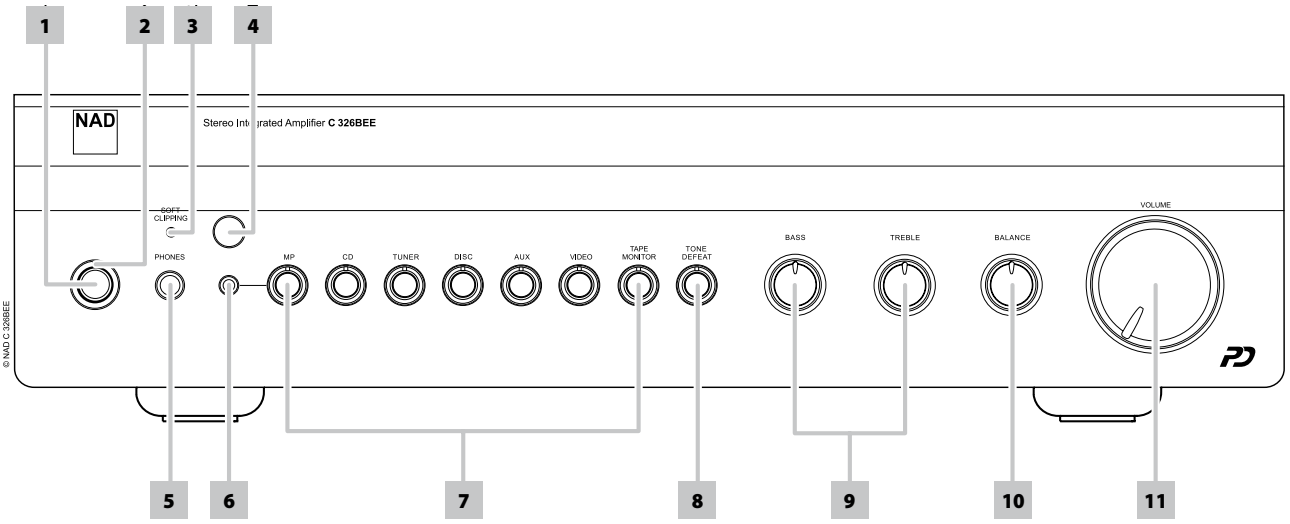
In case you simply cannot wait to experience the performance of your new NAD C 326BEE, we provide the following "QUICK START" instructions to get you underway.

Please make all the connections to your C 326BEE with the unit unplugged. It is also advisable to power-down or unplug all associated components while making or breaking any signal or AC power connections.

1. Connect the speakers to the rear Speaker terminals and sources to the relevant rear input sockets.
2. Connect the AC cord to the C 326BEE's AC Mains input and then plug into an AC outlet.
3. The Standby LED indicator embedded around the bezel of the STANDBY button will illuminate amber.
4. Press the STANDBY button to turn ON the C 326BEE. The Standby LED indicator will turn from amber to blue.
5. Press the required input selector.

IDENTIFICATION OF CONTROLS

FRONT PANEL



1 STANDBY: With the rear panel POWER switch set to ON position, press this button to switch ON the C 326BEE from standby mode. The Standby LED indicator will turn from amber to blue. Pressing the STANDBY button again turns the unit back to standby mode.

The C 326BEE can also be switched ON from standby mode by pressing any of the front panel buttons.

2 STANDBY LED: This indicator will light up amber when the C 326BEE is in standby state. When the C 326BEE is at ON state, this indicator will illuminate blue. When infrared command from the SR 8 is received, this indicator will also flash momentarily.

In cases of serious abuse of the C 326BEE, such as excessively low loudspeaker impedance and short circuit, the C 326BEE will engage its Protection circuitry, indicated by the Standby LED turning from blue to red and the sound being muted.

In such a case, turn the C 326BEE OFF by the rear panel POWER switch, wait for it to cool down and/or check the speaker connections, making sure the overall loudspeaker impedance doesn't go below 4 ohms. Once the cause for the protection circuitry to engage has been removed, switch ON the rear POWER switch and the STANDBY button to resume normal operation.

3 SOFT CLIPPING INDICATOR: The blue SOFT CLIPPING LED shows that the SOFT CLIPPING mode is engaged. Refer also to the item below about SOFT CLIPPING at the IDENTIFICATION OF CONTROLS – REAR PANEL.

4 REMOTE SENSOR: Point the SR 8 remote control at the remote sensor and press the buttons. Do not expose the remote sensor of the C 326BEE to a strong light source such as direct sunlight or illumination. If you do so, you may not be able to operate the C 326BEE with the remote control.

Distance: About 23ft (7m) from the front of the remote sensor.
Angle: About 30o in each direction of the front of the remote sensor.

5 PHONES: A 1/4" stereo jack socket is supplied for headphone listening and will work with conventional headphones of any impedance. Inserting a headphone jack into this socket automatically switches off the loudspeakers. The volume, tone and balance controls are operative for headphone listening. Use a suitable adapter to connect headphones with other types of sockets, such as 3.5mm "personal stereo" jack plugs.

NOTE

Make certain that the volume control is turned to minimum (fully counter-clockwise) before connecting or disconnecting headphones. Listening at high levels can damage your hearing.

6 MP SOCKET: Using a 3.5mm stereo plug, connect into this socket the audio output of a Media Player.

NOTES

- *If an external Media Player is connected to the front MP socket (using a 3.5mm stereo plug) while listening to a MP line-level source, the external Media Player will be directly selected with the MP line-level source immediately disconnected.*
- *It is recommended to mute the volume or switch to a different input before plugging/unplugging the external Media Player cable.*

7 INPUT SELECTORS: These buttons select the active input to the NAD C 326BEE and the signal sent to the loudspeakers, headphones and the PRE OUT sockets. The buttons on the remote control handset duplicate these buttons. When selected, the corresponding input LED indicator embedded around the bezel of the particular input button will illuminate blue.

MP (MEDIA PLAYER): Selects a line-level source connected to the MP sockets as the active input.

If an external Media Player is connected to the front MP socket (using a 3.5mm stereo plug) while listening to a MP line-level source, the external Media Player will be directly selected with the MP line-level source immediately disconnected. It is recommended to mute the volume or switch to a different input before plugging/unplugging the external Media Player cable.

CD: Selects the CD (or other line-level source) connected to the CD sockets as the active input.

TUNER: Selects the tuner (or other line-level source) connected to the tuner sockets as the active input.

DISC: Selects a line-level source connected to the DISC sockets.

AUX: Selects a line-level source connected to the AUX sockets as the active input.

VIDEO: Selects the VCR (or stereo TV/Satellite/Cable receiver) connected to the VIDEO sockets as the active input.

TAPE MONITOR: Selects the output from a tape recorder when playing back tapes or monitor recordings being made through the TAPE OUT sockets in the rear panel. Press the TAPE MONITOR button once to select it and again to return to the normal input selection.

TAPE MONITOR does not override the current input selection. For example, if CD is the active input when TAPE MONITOR is selected, then the CD signal will continue to be selected and sent to the TAPE OUT sockets, but it is the sound from the recorder connected to TAPE IN that will be heard on the loudspeakers. Apart from the blue LED to indicate Tape Monitor is engaged, the blue LED for the active input will also stay lit.

8 TONE DEFEAT: Tone Controls are enabled or disabled by pressing this button. When enabled (TONE DEFEAT LED indicator is illuminated), the Tone Control circuits are bypassed. The Tone Control circuits are active when the TONE DEFEAT LED indicator stays extinguished.

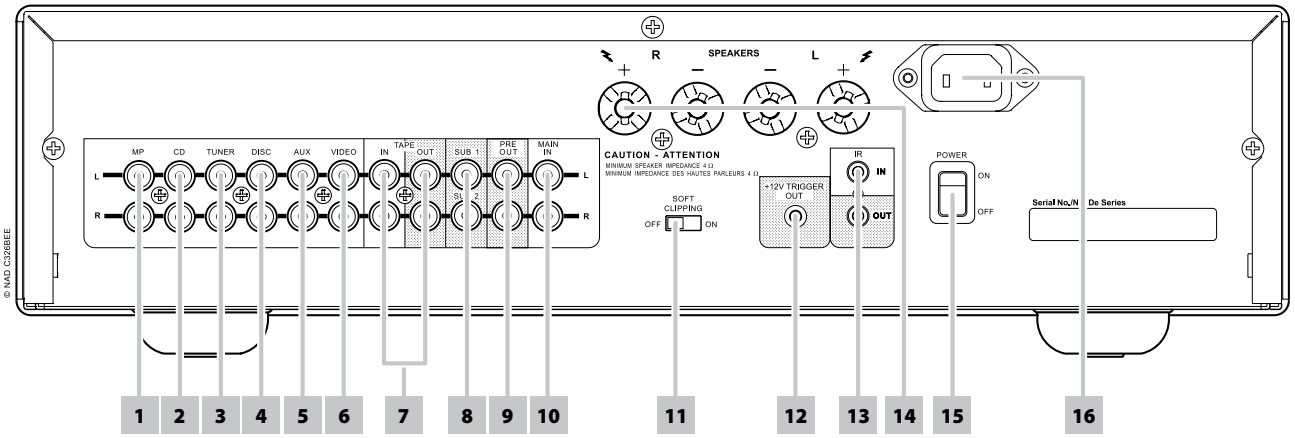
9 TONE CONTROLS: The NAD C 326BEE is fitted with BASS and TREBLE tone controls to adjust the tonal balance of your system. The 12 o'clock position is "flat" with no boost or cut, and an indent indicates this position. Rotate the control clockwise to increase the amount of Bass or Treble. Rotate the control counterclockwise to decrease the amount of Bass or Treble. The Tone controls do not affect recordings made using the Tape output but will affect the signal going to the Pre-amp output (PRE OUT).

10 BALANCE: The BALANCE control adjusts the relative levels of the left and right speakers. The 12 o'clock position provides equal level to the left and right channels. A detent indicates this position. Rotating the control clockwise moves the balance towards the right. Rotating the control counterclockwise moves the balance to the left. The BALANCE control does not affect recordings made using the Tape output but will affect the signal going to the Pre-amp output (PRE OUT).

11 VOLUME: The VOLUME control adjusts the overall loudness of the signals being fed to the loudspeakers or headphones. Turn clockwise to increase the volume setting; counter clockwise to lower it. The VOLUME control does not affect recordings made using the Tape output but will affect the signal going to the Pre-amp output (PRE OUT).

IDENTIFICATION OF CONTROLS

REAR PANEL



ATTENTION!

Please make sure that the C 326BEE is powered off or unplugged before making any connections. It is also advisable to power down or unplug all associated components while making or breaking any signal or AC power connections.

1 MP INPUT: Input for a Media Player or other line-level signal source. Use a twin RCA-to-RCA lead to connect the Media Player's left and right "Audio Outputs" to this input.

NOTE

If an external Media Player is connected to the front MP socket (using a 3.5mm stereo plug) while listening to a MP line-level source, the external Media Player will be directly selected with the MP line-level source immediately disconnected.

2 CD INPUT: Input for a CD or other line-level signal source. Use a twin RCA-to-RCA lead to connect the CD player's left and right "Audio Outputs" to this input.

3 TUNER INPUT: Input for a tuner or other line-level signal source. Use a twin RCA-to-RCA lead to connect the tuner left and right "Audio Outputs" to this input.

4 DISC INPUT: Input for additional line level input signals such as CD, Mini Disc player or the output signal from a step-up amplifier for a turntable. Use a twin RCA-to-RCA lead to connect the auxiliary unit's left and right "Audio Outputs" to this input.

5 AUX INPUT: Input for additional line level input signals such as another CD player. Use a twin RCA-to-RCA lead to connect the auxiliary unit's left and right "Audio Outputs" to this input.

6 VIDEO INPUT: Input for the audio signal from a stereo VCR (or stereo TV/Satellite/Cable receiver) or other line-level audio source. Using twin RCA-to-RCA leads, connect to the left and right 'Audio Outputs' of the unit to these inputs.

7 TAPE IN/OUT: Connections for analog recording and playback to an audio tape recorder of any type. Using twin RCA-to-RCA leads, connect to the left and right "Audio Output" of the tape machine to the TAPE IN sockets for playback. Connect the left and right "Audio Input" of the tape machine to the TAPE OUT sockets for recording.

TO MAKE A RECORDING

When any source is selected, its signal is also fed directly to any tape machine connected to the TAPE OUT for recording.

8 SUB 1, SUB 2: Unlike the full range channels, there is no power amplifier built-into the C 326BEE for a subwoofer. Connect the SUB 1 or SUB 2 output or both to powered ("active") subwoofers or to power amplifier channels driving a passive system.

9 PRE OUT: Connections to an external power amplifier or processor, such as a surround-sound decoder. In normal use, this should be connected to the Main In sockets with the links supplied. To connect your NAD C 326BEE to external processor or amplifier sections, remove first these links. Use a twin RCA-to-RCA lead to connect the left and right "Audio Input" of a power amplifier or processor to the PRE OUT sockets.

Always turn the C 326BEE and associated external power amplifiers OFF before connecting or disconnecting anything to the PRE OUT sockets. The PRE OUT output signal will be affected by the C 326BEE's volume and tone control settings.

10 MAIN IN: Connections to an external pre-amplifier or processor, such as a surround-sound decoder. In normal use, this should be connected to PRE OUT sockets with the links supplied. To connect your NAD C 326BEE to external processor or pre-amplifier, remove first these links. Use a twin RCA-to-RCA lead to connect the left and right "Audio Output" of the pre-amp or processor to the Main In sockets.

Always turn the C 326BEE and associated external power amplifiers OFF before connecting or disconnecting anything to the MAIN IN sockets.

11 SOFT CLIPPING™: Enables NAD's proprietary Soft Clipping circuitry on all channels. At [ON] position, Soft Clipping gently limits the output of the C 326BEE to minimize audible distortion should the amplifier be over-driven. Soft Clipping may simply be left ON at all times to reduce the likelihood of audible distortion from excessive volume settings. However, for critical listening and to preserve optimum dynamics, you may wish to defeat it by setting this switch to "OFF" position.

The SOFT CLIPPING indicator on the front panel will illuminate when the C 326BEE is in Soft Clipping mode. Refer also to the item below about "POWERDRIVE".

POWERDRIVE
The C 326BEE uses NAD's proprietary PowerDrive™ amplifier technology for all channels to preserve accurate, linear reproduction regardless of the loudspeaker. This uniquely efficient power-supply topology provides the real-world benefits of high dynamic power that remains uncompromised by low-impedance speakers.

By adding a second high-voltage rail to our well regulated high-current power supply, we get an "overdrive" that can nearly double the continuous power on a short term dynamic power basis. PowerDrive offers greater amplifier stability and low impedance drive capability, resulting in less distortion when driving real speakers with real program material.

12 +12V TRIGGER OUT: The +12V TRIGGER OUT is used for controlling external equipment that is equipped with a +12V trigger input. This output will be 12V when the C 326BEE is ON and 0V when the unit is either OFF or in standby. This output can drive a load up to 50mA at 12V.

13 IR IN/OUT: These mini-jacks accept and output remote-controlled codes in electrical format, using industry-standard protocols, for use with "IR-repeater" and multi-room systems and related technologies.
IR IN: This input is connected to the output of an IR (infrared) repeater (Xantech or similar) or the IR output of another component to allow control of the C 326BEE from a remote location.
IR OUT: When connected to the IR IN of an ancillary equipment, direct the ancillary equipment's own remote control to the C 326BEE's infrared receiver to command or control the linked unit.
All NAD products with IR IN/IR OUT features are fully compatible with the C 326BEE. For non-NAD models, please check with your other product's service specialists as to their compatibility with the C 326BEE's IR features.

14 SPEAKERS: Connect the right speaker to the terminals marked "R +" and "R-" ensuring that the "R+" is connected to the "+" terminal on your loudspeaker and the "R-" is connected to the loudspeaker's "-" terminal. Connect the terminals marked "L+" and "L-" to the left speaker in the same way.

Always use heavy duty (16 gauge; 1.5mm, or thicker) stranded wire to connect loudspeakers to your C 326BEE. The high-current binding post terminals can be used as a screw terminal for cables terminating in spade or pin sockets or for cables with bare wire ends.

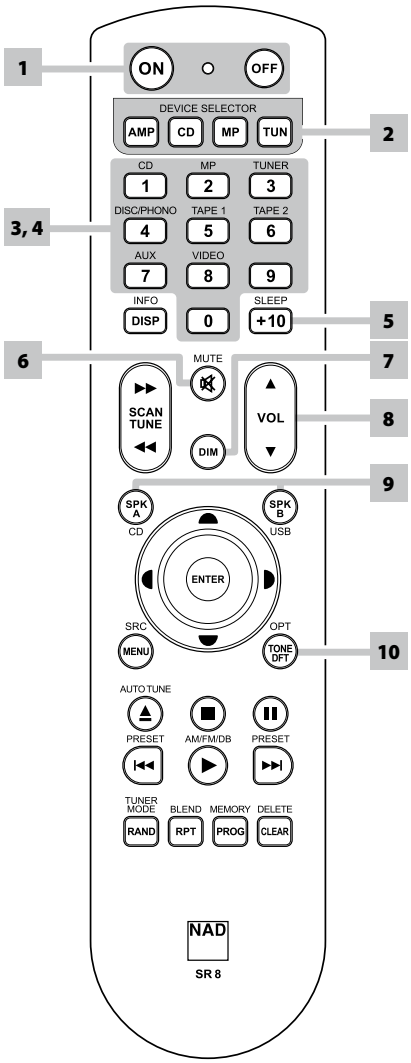
The C 326BEE is designed to produce optimum sound quality when connected to speakers with impedances within its operating range. Please make sure that all the speakers are rated 4 ohms minimum per speaker.

15 POWER SWITCH: The POWER switch supplies the master AC mains power for the C 326BEE. When this switch is at ON position, the C 326BEE is in standby mode as shown by the amber status condition of the standby LED. Toggle the front panel's STANDBY button to switch ON the C 326BEE or back to standby mode. If you intend not to use the C 326BEE for long periods of time (such as when on vacation), switch the POWER switch to the OFF position. When the POWER switch is at OFF position, the front panel power button or SR 8 remote control cannot activate the C 326BEE.

16 AC MAINS INPUT: The C 326BEE comes supplied with a separate AC Mains cable. Before connecting the cable to a live wall socket, ensure that it is firmly connected to the C 326BEE's AC Mains input socket first. Connect only to the prescribed AC Outlet, i.e., 120V 60 Hz (North America version only) or 230V 50 Hz (European version only).. Always disconnect the AC Mains cable plug from the live wall socket first, before disconnecting the cable from the C 326BEE's Mains input socket.

IDENTIFICATION OF CONTROLS

SR 8 REMOTE CONTROL



USING THE SR 8 REMOTE CONTROL

The SR 8 remote control handset handles the key functions of the C 326BEE as well as other NAD Stereo Receivers, Integrated Amplifiers and Preamplifiers. It has additional controls to remotely operate NAD CD Players, AM/FM Tuners and dedicated AM/FM/DAB Tuners. It will operate up to a distance of 23ft (7m). Alkaline batteries are recommended for maximum operating life. Two AA batteries should be fitted in the battery compartment at the rear of the Remote Control handset. When replacing batteries, check that they have been put in the right way round, as indicated on the base of the battery compartment.

When a command from the remote control is received, the Standby LED indicator will blink. Note that the indicator may also blink when receiving commands not necessarily for the C 326BEE but for other components in the system. Please refer to previous sections of the manual for a full description of individual functions.

NOTE

The remote control handset supplied with the C 326BEE is of a universal NAD type, designed to operate several NAD models. Some buttons are applicable only to specific NAD models. Contact your dealer or NAD audio specialist for assistance.

1 POWER ON & OFF: The SR 8 remote has a separate ON and OFF button. Press the ON button to switch the unit from Standby to operating mode. Press the OFF button to switch the unit to Standby mode.

2 DEVICE SELECTOR: A Device Selector button determines only what component the SR 8 will command; it does not perform any function on the C 326BEE. Press desired Device Selector button for the applicable buttons to be directed to a "page" of commands relevant to the selected device. Upon selecting a Device, you can now press the corresponding SR 8 control buttons applicable for the selected Device.

3 INPUT SELECTORS: Refer to the corresponding labels printed in the remote control faceplate and their respective assigned buttons to make use of these functions. Set the DEVICE SELECTOR to "AMP" in order to gain access to these buttons. The input selector buttons perform the same functions as the buttons labeled the same on the front panel.

4 NUMERIC KEYS: The numeric keys allow for direct input of tracks for CD players, and direct channel/preset access for tuners and receivers.

5 SLEEP: Switch off specific NAD Receiver or Tuner models after a preset number of minutes.

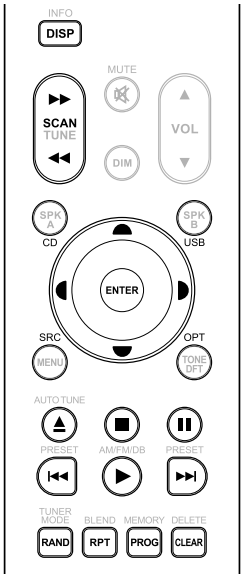
6 MUTE: Press the [MUTE] button to temporarily switch OFF the sound to the speakers and headphones. MUTE mode is indicated by the Standby LED indicator flashing for NAD Integrated Amplifiers or "Mute" shown in the VFD of NAD Receivers. Mute does not affect recordings made using the TAPE output but will affect the signal going to the PRE OUT output. Press MUTE again to restore sound.

7 DIM (for use with NAD Stereo Receiver, Tuner and CD Player): Reduce, turn off or restore VFD brightness. Depending on the NAD model, the brightness of the front panel display will vary when you toggle this button.

8 VOL [▲/▼]: Press [▲/▼] button to increase or decrease the loudness level. Release the button when the desired level is reached. For NAD Receivers, the VFD will also show "Volume Up" or "Volume Down" while pressing SR 8's . The VOLUME buttons do not affect recordings made using the TAPE output but will affect the signal going to the PRE OUT output.

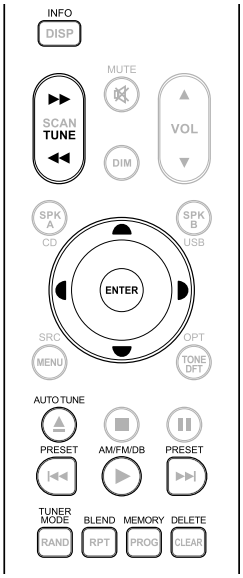
9 SPK A, SPK B: The [SPK A] and [SPK B] buttons engage or disengage the speakers connected respectively to the Speakers A and Speakers B terminals. Toggle [SPK A] to switch ON or OFF the speakers connected to the Speaker A terminals. Toggle [SPK B] to switch ON or OFF the speakers connected to the Speaker B terminals. Press both buttons to engage both speakers. These buttons are compatible only with specific NAD Receiver or Tuner models and do not apply to the C 326BEE.

10 TONE DFT: Tone controls are enabled or disabled by pressing this button.



CD PLAYER CONTROL (for use with NAD CD Player): Set the DEVICE SELECTOR to "CD" in order to gain access to these buttons. Some of the control buttons below are applicable only to specific NAD CD Player models; check the owner's manual of your NAD CD Player for control button compatibility.

SCAN [◀◀/▶▶]: Fast reverse/forward search.
[⏏] : Open or close disc tray.
[■] : Stop playback.
[II] : Pause playback temporarily.
[▶▶I] : Go to next track/file.
[I◀◀] : Go to beginning of current track/file or to previous track/file.
[▶]: Start playback.
[▲/▼]: Select through folder list/Select through WMA/MP3 files.
ENTER: Select desired folder or WMA/MP3 file.
DISP: Show playback time and other display information.
RAND: Play tracks/files in random order.
RPT: Repeat track, file or whole disc.
PROG: Enter or exit program mode.
CLEAR: Delete programmed track/file.
CD: Select CD as the active source.
USB: Select USB as the active source.
OPT: Select optical input as the active source.
SRC: Toggle to select desired SRC mode.



TUNER CONTROL (for use with NAD AM/FM/DAB Tuner): Set the DEVICE SELECTOR to "TUN" in order to gain access to these buttons. Refer to the corresponding labels printed in the remote control faceplate and their respective assigned buttons to make use of these functions. Some of the control buttons below are applicable only to specific NAD Receiver or Tuner models; check the owner's manual of your NAD Receiver or Tuner for control button compatibility.

AUTO TUNE: In DAB mode, press this button to automatically scan all available local stations.
TUNE [◀◀/▶▶] or [◀/▶]: Step up or down between AM or FM frequencies.
PRESET [I◀◀/▶▶I] or [▲/▼]: Step up or down between stored radio presets.
AM/FM/DAB: Select AM, FM, DAB or XM band (if applicable).
TUNER MODE: In FM mode, toggle between "FM Mute On" and "FM Mute Off". In DAB mode, pressing this button will activate Dynamic Range Control (DRC), Station Order or other applicable DAB menu options.
BLEND: Engage or disengage BLEND feature.
MEMORY: Save current station into preset memory.
DELETE: Press and hold for about 2 seconds and the selected preset memory is erased.
[◀/▶]: In DAB mode, in combination with TUNER MODE or other compatible buttons, toggle to select through DAB feature options like Dynamic Range Control, Station Order and other appropriate DAB options.
ENTER: In AM/FM mode, toggle to select Preset or Tune mode. In DAB mode, press and hold to check signal strength.
INFO: Repeatedly pressing this button will show information as supplied by the current radio station. The applicable display contents include related DAB display information and RDS broadcast data.

IDENTIFICATION OF CONTROLS

SR 8 REMOTE CONTROL

USING THE SR 8 REMOTE CONTROL LIBRARY

The SR 8 can store a different library of default NAD codes for each of its DEVICE SELECTOR "pages." If the original default library does not control your NAD CD player, DVD player or other components, follow the procedure below to change the library code. Refer as well to the table below for a list of applicable NAD Library Codes with their corresponding NAD models.

LOAD ANOTHER LIBRARY CODE

Example: Load NAD DVD Player T 517 library codes to SR 8's "CD" device.

1. Press and hold [CD] in the DEVICE SELECTOR section of SR 8.
2. While holding down the device button (CD), press "2" and "2" using SR 8's numeric buttons. "22" is the corresponding library code for T 517.
3. Press [ENTER] while still holding down the device button (CD). The CD device selector will flash once to indicate that the library input is successful. Both the device selector button (CD) and [ENTER] can now be released.

RESET THE SR 8 TO ITS DEFAULT SETTINGS

The SR 8 can be restored to its factory settings, including default libraries, by the following procedures

1. Press and hold [ON] and [DELETE/CLEAR] buttons for about 10 seconds until the AMP device button lights up.
2. Within two seconds of the AMP device button lighting up, release both buttons. If the reset mode is successful, the [CD] device button will flash twice.

TABLE OF LIBRARY CODES APPLICABLE TO SR 8 REMOTE CONTROL

LIBRARY CODE	NAD PRODUCT DESCRIPTION
10	Default library for "AMP" page
11	Zone 2
20	Default library for "CD" page; C 515BEE, C 545BEE, C 565BEE
21	T 535, T 585, M55, DVD section of L 54, VISO TWO, VISO FIVE
22	T 513, T 514, T 515, T 517
23	T 587
31	IPD 2
40	Default library for "TUN" page; Tuner section of C 725BEE, T 175, T 737, T 747, T 755, T 765, T 775, T 785
41	C 422, C 425
42	C 445

NOTE

The SR 8 may not necessarily contain all the control buttons applicable for the above-mentioned NAD products. Use the prescribed remote control of the specific NAD product for a full compliment of the applicable remote control buttons.

CONDITION	POSSIBLE CAUSES	POSSIBLE SOLUTIONS
No sound.	• Power AC lead unplugged or power not switched ON.	• Check if AC lead is plugged in and power switched ON.
	• Tape Monitor selected.	• De-select Tape Monitor mode.
	• Mute on.	• Switch off Mute.
	• Rear Pre-out/Main-in amp links not fitted.	• Fit links.
No sound one channel.	• Balance control not centered.	• Center Balance control.
	• Speaker not properly connected or damaged.	• Check connections and speakers.
	• Input lead disconnected or damaged.	• Check leads and connections.
Weak bass/diffused stereo image.	• Speakers wired out of phase.	• Check connections to all speakers in the system.
No sound from Subwoofer.	• Subwoofer is off, not powered or improperly connected.	• Power-up subwoofer, check subwoofer's AC outlet or check connections.
Remote control handset not working.	• Battery flat or incorrectly inserted.	• Check or replace battery.
	• IR transmitter or receiver windows obstructed.	• Remove obstruction.
	• IR receiver in direct sun or very bright ambient light.	• Place unit away from direct sun, reduce amount of ambient light.
Standby LED turns red during operation.	• C 326BEE has overheated.	• Turn C 326BEE OFF; make sure ventilation slots on top and bottom of C 326BEE are not blocked. After C 326BEE has cooled down, turn back ON.
	• Overall impedance of loudspeakers too low.	• Ensure the overall loudspeaker impedance is not below 4 ohms.

REFERENCE

SPECIFICATIONS

PREAMPLIFIER SECTION

LINE LEVEL INPUT, PRE OUT

THD (2 Vin 2 Vout, CCIF IMD, DIM 100)	>0.004 % (ref. 20 Hz – 20 kHz)
Signal/Noise ratio IHF	>100 dB (A-weighted, ref. 500 mV)
	>108 dB (A-weighted, ref. 2V, Volume maximum)
	>92 dB (A-weighted, ref. 100 mV in 100 mV out - unity gain)
Channel separation - 1 kHz	>80 dB
10 kHz	>70 dB
Input impedance (R and C)	100 kΩ+ 320 pF
Maximum input signal	>8 Vrms (ref. 0.1 THD)
Output impedance - Pre out	75 Ω
Tape out	Source Z + 1 kΩ
Input sensitivity	159 mV (ref. 500 mV out)
Frequency response	± 0.1 dB (ref. 20 Hz - 20 kHz, Tone defeat ON)
	± 0.5 dB (ref. 20 Hz - 20 kHz, Tone defeat OFF)
Maximum voltage output - IHF load	>10 V (ref. 0.03% THD)
600 ohms load	>10 V (ref. 0.03% THD)

TONE CONTROLS

Treble	± 5 dB at 10 kHz
Bass	± 8 dB at 100 Hz

POWER AMPLIFER SECTION

MAIN IN, SPEAKER OUT

Continuous output power into 8 Ω and 4 Ω (Stereo)	>50 W (ref. rated THD, 20 Hz-20 kHz, both channels driven)
Rated THD (CCIF IMD, DIM 100)	<0.009 % (ref. 20 Hz - 20 kHz)
Clipping power	>65 W (ref. 1 kHz 1% THD)
IHF dynamic power - 8 Ω	100 W
4 Ω	150 W
2 Ω	200 W
Peak output current	>20 A (ref. 1 Ω, 1 ms)
Signal/Noise ratio	>100 dB (A-weighted, ref. 1 W)
	>117 dB (A-weighted, ref. 150 W)
Damping factor	>100 (ref. 8 Ω, 50 Hz and 1 kHz)
Frequency response	± 0.1 dB (ref. 20 Hz - 20 kHz)
	3 Hz – 70 kHz (ref. -3 dB)
Input impedance	20 kΩ + 1 nF
Input sensitivity	630 mV (ref. rated power)
Voltage gain	29 dB
Headphone output impedance	68 Ω
Channel separation - 1 kHz	>80 dB
10 kHz	>70 dB

TRIGGER OUT

Output resistance	<100 Ω
Output current	50 mA
Output voltage	+12 V

OVERALL SPECIFICATIONS

CD IN, SPEAKER OUT

THD (250 mW to rated power, CCIF IMD, DIM 100)	<0.009 % (ref. 20 Hz - 20 kHz)
Signal/Noise ratio	>94 dB (A-weighted, ref. 1 W)
	>110 dB (A-weighted, ref. 50 W, volume set for 2V input)
Frequency response	± 0.2 dB (ref. 20 Hz - 20 kHz, Tone Defeat ON)
	10 Hz – 65 kHz (ref. -3 dB)
Channel separation - 1 kHz	>80 dB
10 kHz	>70 dB

POWER CONSUMPTION

Rated power	290 W (ref. 230V AC 50 Hz; 120V AC 60 Hz)
Standby power	<1 W
Idle power	<35W

DIMENSION AND WEIGHT

Dimensions (W x H x D)	435 x 100 x 286 mm (Net)
	435 x 116 x 332 mm (Gross*)
Net weight	6.9 kg
Shipping weight	9.1 kg

* - Gross dimensions include feet, volume knob and extended speaker terminals.

Specifications are subject to change without notice. For updated documentation and features, please log onto www.NADelectronics.com for the latest information about C 326BEE.

www.NADelectronics.com

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C 326BEE Owner's Manual Issue 1.4-09/09